

A RESOLUTION BY

PUBLIC SAFETY COMMITTEE

01-R-0246

A RESOLUTION TO AMEND RESOLUTION 98-R-0571, AUTHORIZING A NOTICE TO PROCEED FOR ADDITIONAL DESIGN/BUILD SERVICES AND OTHER PURPOSES OF FIRE STATION NO. 14, LOCATED AT LEE AND AVON STREETS. THE AMOUNT OF THE NOTICE TO PROCEED SHALL NOT EXCEED TWO MILLION FOUR HUNDRED SIXTEEN THOUSAND THREE HUNDRED THIRTY-SEVEN DOLLARS (\$2,416,337.00). ALL CONTRACTED WORK SHALL BE CHARGED TO AND PAID FROM FUND ACCOUNT CENTER NUMBERS: 1C41 573001 W11C022892AC (\$925,000.00), 1C42 574001 W11C021392AC (\$1,410,000.00), AND 1C40 573001 W11C021392AB (\$81,337.00).

WHEREAS, a Notice to Proceed was issued to CH2MHill/TOC, Inc., - JV, for the Design/Build of Fire Station No. 14 located at Lee and Avon Streets, pursuant to Resolution No. 93-R-0571, in the amount of \$799,500.00; and

WHEREAS, the correction of unforeseen subsurface conditions and building changes are required; and

WHEREAS, the City was able to acquire the adjacent property which will facilitate expanding the fire station to make it more efficient for both staff and community thus resembling in size, the majority of the fire stations in the City; and

WHEREAS, the NPU has requested a Community Room be built in the Fire Station to accommodate their growing needs; and

NOW THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF ATLANTA, GEORGIA, that the Mayor or his designee is authorized to approve and amend the Notice to Proceed to CH2M Hill/TOC, Inc., - JV in an amount not to exceed Two Million Four Hundred Sixteen Thousand Three Hundred Thirty-seven Dollars (\$2,416,337.00); and

BE IT FURTHER RESOLVED, that the Director of the Bureau of Purchasing and Real Estate is hereby directed to prepare an appropriate Notice to Proceed.

BE IT FURTHER RESOLVED, that this Notice to Proceed shall not become binding on the City, and the City shall incur no liability upon same until such Notice to Proceed has been executed by the Mayor and delivered to the contracting party.

BE IT FINALLY RESOLVED, that all services for said Notice to Proceed be charged to and paid from fund account and center numbers: 1C41 573001 W11C022892AC (\$925,000.00), 1C42 574001 W11C021392AC (\$1,410,000.00), AND 1C40 573001 W11C021392AB, (\$81,337.00).

BPRE
kob (02/13/01)

FACILITY DESIGN ISSUES AND DESIGN
GUIDELINES

CONTRACT NO. FC-6710-96A
ANNUAL ARCHITECTURAL AND ENGINEERING
SERVICES FOR THE DESIGN/BUILD OF
CITY OF ATLANTA FIRE STATION
NOS. 4 AND 14

SUBMITTED BY THACKER OPERATING COMPANY, INC.
JANUARY 2001

CITY OF ATLANTA FIRE STATIONS FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

INTRODUCTION:

The planning process for the fire stations provided a unique forum for the City Of Atlanta Fire Department, other city departmental staff, the community and the design professional to benefit from each other and become partners in accomplishing a unified goal. The resulting design guidelines which follow provide a customized solution to fire department goals and objectives that is flexible yet consistent in nature. Members of the design team included fire department personnel, City of Atlanta administrative and architectural services staff, members of the community, contractors, and architectural/engineering consultants. The process involved, but was not limited to:

- Members brainstormed in meetings held at various times during the programming process.**
- Issues were raised and identified**
- Interviews were conducted with fire department personnel**
- Design guidelines were developed based on historical usage and the latest trends of the industry**
- Site visits were conducted to view other fire stations in the metropolitan area.**

The result of all these interactions has been the development of a Prototypical Design Guidelines/Program that lends itself to replication of any number of new fire stations. The stations may or not look identical, but functionally are the same.

CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

I. FACILITY DESIGN ISSUES:

SITE:

- ❖ **Site Access-Public vs. Emergency Response**
 - Who will be accessing the site besides assigned response personnel
 - General public (community meetings)
 - Maintenance Staff
 - Other fire department personnel
 - Local business concerns
 - Other City personnel
- ❖ **Impact to/by neighbors**
 - Adjacent neighbors
 - Sound generation (sirens, truck noise, etc.)
 - Light generation (head lights, apparatus lights, other emergency lighting)
- ❖ **Apparatus Bay**
 - Back-in or drive through
 - Current and future apparatus needs
 - Impact of assigned and visiting companies responding without crossing paths with public visitor vehicles
- ❖ **Apparatus Maintenance**
 - Determine the following:
 - Fueling
 - Hose testing
 - Ladder testing
 - Maintenance checks
 - Vehicle cleaning
- ❖ **On-site parking**
 - Security
 - Separate staff and public parking
- ❖ **Refuse Collection**
 - Dumpster vs. Residential curb collection ("herbie curbies")

ADMINISTRATION

- ❖ **Offices/work Stations**
 - Current and future staff levels
 - Workweek
 - Forty (40) hours-single person use
 - 1 office, 1 desk, 1 storage space

CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

ADMINISTRATION (continued)

- Shift work-multi person use
 - Office, desk and storage applicable to staff assigned
- ❖ Support Equipment areas
 - Copy/fax/supplies
 - File storage
 - Space for report preparation
- ❖ Conference room(s)
- ❖ Record storage
- ❖ Public access to the facility
 - Conference/community space
 - Public service (blood pressure monitoring station, etc.)
 - Waiting area/lobby

OFFICE FUNCTIONS-WORK AREAS

- ❖ Private vs. shared workstation
 - Everyone who is involved with managing personnel needs some sort of privacy
 - Analyze administrative duties and responsibilities to determine needs.
- ❖ Closed door vs. open space
 - Closed door
 - Shared vs. individual workstations
 - File storage
 - Other: Conference
 - Open Space
 - Determine number of spaces needed
 - Multi-usage
 - Library/study
 - Office/living quarters
 - Etc.

OFFICE FUNCTIONS-CONFERENCE/COMMUNITY ROOMS

- ❖ Conference and community room(s)
 - Provide space for meeting rooms for the community
 - Provide meeting room for the department
- ❖ Hospitality Area
 - Provide a hospitality area so that the community does not use the facility's kitchen.
 - Public access to toilets
- ❖ Public reception Counter
 - Provide separate entrance for the public

CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

OFFICE FUNCTIONS-CONFERENCE/COMMUNITY ROOMS (continued)

- Public use of the facility after 8 am – 5 pm
- Design public use area(s) to operate independently and separate from the station's functions

PUBLIC SPACE-RESTROOMS

- ❖ Comply with the American with Disabilities Act and local building codes
- ❖ Separate gender restrooms

LIVING QUARTERS-SLEEPING

- ❖ Dorm vs. modified bunkrooms
 - Dorm rooms-Separate sleeping quarters
 - Advantages are: more privacy (females, work/study environment, dressing area, sound barrier)
 - Issues are:
 - If dorm rooms contain personal lockers then locker rooms can be eliminated.
 - The layout of the bunkroom needs to be on a direct path to the apparatus bays.
 - Dorm rooms are more space intensive than bunkrooms.
 - Bunk rooms (modified)-Firefighters together in one room separated by low privacy walls
 - Advantages are: less space intensive, more flexible, and can promote camaraderie.
 - Issues are:
 - If a bunkroom arrangement is used, a separate locker room/dressing area is required.
 - Address privacy more so than pure bunk room
- ❖ Number of beds depends on company size and:
 - "Coldsheet" vs. "Hotsheet" vs. "Warmsheet"
 - "Coldsheet"-one bed for every person assigned to the facility
 - "Hotsheet" – change bed sheets at the beginning of every shift
 - "Warmsheet"- change bed sheets after every tour

LIVING QUARTERS-DAY ROOM

- ❖ Spatial relationship to the kitchen and dining spaces
 - Openness to kitchen fosters camaraderie
- ❖ Multi- functions
 - Study, library, training, etc.
- ❖ Separate from public area

CITY OF ATLANTA FIRE STATIONS FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

LIVING QUARTERS-RESTROOMS

- ❖ Equal facilities vs. gender neutral vs. residential
 - Equal Facilities-Separate but equal facilities for each gender
 - Space intensive
 - Provides complete flexibility in staffing
 - Complete privacy between genders
 - Gender Neutral- The toilets and showers are in separate spaces and the sinks are shared
 - Most space efficient solution
 - Works best with the dorm room concept (lockers inside of room)
 - Residential-Restrooms are within sleeping quarters
 - Requires more fixtures and space, but offers the most privacy
 - Consider the effects of the American with Disabilities Act vs. Departmental policies

LIVING QUARTERS-LOCKER

- ❖ Departmental policy toward providing facilities to accommodate each gender
 - Providing equal facilities is space intensive

LIVING QUARTERS-EXERCISE ROOM

- ❖ Varies with the number of people who workout at the same time
 - Individual workouts
 - Company workouts

LIVING QUARTERS-LAUNDRY

- ❖ Equipment

LIVING QUARTERS-TELEPHONE BOOTHS

- ❖ Private telephone usage by station personnel

LIVING QUARTERS -DINING AREA:

- ❖ Size is dictated by how are meals eaten
 - Company vs. individually
- ❖ Largest number of people eating at same time
- ❖ Define type of dining environment envisioned
 - Open to day room and/or kitchen vs. separate space
- ❖ Adjacency to outdoor dining/patio space
- ❖ Size, furnishing and equipment

CITY OF ATLANTA FIRE STATIONS FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

LIVING QUARTERS-KITCHEN

- ❖ Meals preparation
 - One person cooks for company vs. each individual cooks for himself
- ❖ Food storage
- ❖ Kitchen maintenance
- ❖ Appliances
 - Residential and commercially rated
- ❖ Durability of surfaces
 - Stainless steel vs. laminated solid wood, choice depends on usage, budget and aesthetics.

APPARATUS BAY

- ❖ Apparatus/Equipment Storage
 - Largest piece of apparatus housed/stored
 - Plan for an open and clear apparatus bay
 - No columns
 - Properly sized and specified doors
 - Turning radius to properly exit onto the public street from the bay
- ❖ Utilities
 - Electrical
 - Extraction System (vehicle exhaust)
 - Water
 - Floor drainage
- ❖ Vehicle access

JANITOR CLOSET

- ❖ Type of maintenance
- ❖ Space location
 - Space should be dedicated to living quarters
 - Space should be dedicated to apparatus bay

TURN OUT GEAR STORAGE

- ❖ Storage of gear when on duty
 - Near apparatus
 - Separate storage from offices and living quarters
- ❖ Off-Duty Storage
 - Enough space for entire company
 - Clothing/gear
 - Turn out gear
 - Hazmat suits, if required
 - Gloves

CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

TURN OUT GEAR STORAGE (continued)

- Booths
- Helmets
- It is recommended that safety gear be kept away from:
 - Diesel exhaust contamination
 - Direct sun light
- Provide separate space with dedicated storage that has little to no direct sun light and ventilation

II. FACILITY DESIGN GUIDELINES:

SITE

- ❖ Separate and secure parking area for station personnel.
- ❖ Include flagpole and flag
- ❖ Refuse collection is by individual containers (herbie curbie) not dumpsters
- ❖ Public on-site parking
- ❖ 200 square feet per parking space

ADMINISTRATION AND PUBLIC SPACE

- ❖ Provide office(s) for officers
- ❖ Provide office for "watch officer"
- ❖ Separate and secure community space from living area
- ❖ Community space for departmental training and community use
 - Include cabinetry and wet bar
 - Include audio-visual capability
- ❖ Include handicap accessible women/men toilet facilities.

LIVING QUARTERS

- ❖ No dishwasher, force staff to clean up after every meal.
- ❖ All plywood wall and base cabinets with stainless steel countertop and sink.
Absolutely no particle board
- ❖ Use light fixtures in bunk area that have a third tube (red). The night lighting feature of using a third tube fixture with a middle tube sleeved in a red plastic tube and left on at night
- ❖ Use energy efficient light fixtures
- ❖ Kitchen Equipment to include:
 - Solid door reach-in Refrigerator, True Food Service Model T-23 or T-35, or Equal.
 - Ice Maker and ice bin, Scotsman or Equal

CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

LIVING QUARTERS (continued)

- ❖ 36-inch wide gas stove including, cook top and range, Castle F330, or Equal)
- ❖ Gas grill at courtyard/patio sitting area
- ❖ Telephone booth/enclosure for personal use by staff
- ❖ Individual living area to include
 - One twin size, extra firm and extra long bed mattress and frame, Custom Mattress Company, or equal.
 - Three single tier metal lockers
- ❖ Heavy-duty residential washer and dryer with stainless steel drums
- ❖ Include physical fitness area

APPARATUS BAY

- ❖ Put a hydrant near the front drive, use for hose testing, filling trucks, back flushing pumps, etc.
- ❖ Overhead door shall be a solid panel aluminum door with a series of light panels at eye level only. Do not use glass/plexi-glas roll up doors.
- ❖ Reznor NG Space Heaters used in apparatus bay, three (3) each X 12-15 feet long.
- ❖ Exhaust evacuation system for the apparatus bay
- ❖ Slot drains installed in apparatus room along centerline of trucks. No less than 6-inch drain line.
- ❖ Concrete hardener on apparatus room floor
- ❖ Include mop sink and faucet in apparatus room. Mop sink to be at less 8-10 inches deep. Mount faucet 14-18 inches off of finish floor
- ❖ Truck specifications
 - Ladder truck is 63 feet long
 - Engine is 28.5 feet long
 - Pavement cross section should be able to accommodate a minimum of 25-30 tons
- ❖ Ladder truck standard turning radius is 33 feet @ inside wheel and 48 feet at outside wheel.

FACILITY WIDE

- ❖ Emergency Generator, sized for building, 100% standby backup power. Self- testing feature on generator is preferred.
- ❖ Wet pipe fire sprinkle system. Install in building, even if not required by code.
- ❖ Security cameras should be routed to watch room
- ❖ Minimize the amount of flat roofs
- ❖ Electrical service to be not less than 175-amp service.
- ❖ To be provided by the City of Atlanta
 - Security /CCTV systems
 - Data communications
- ❖ Voice communications

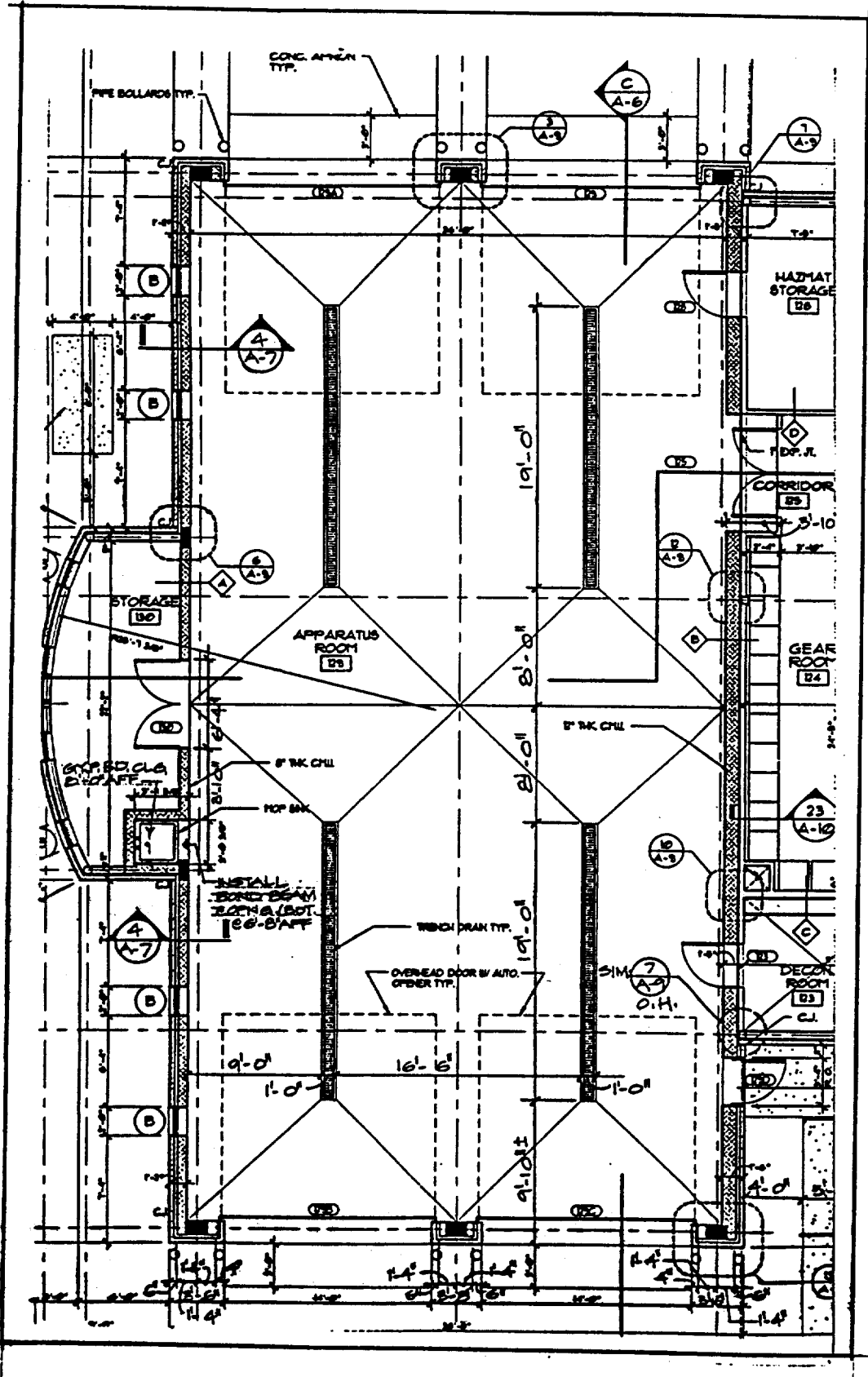
**CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES**

III. GRAPHICS

EXHIBITS

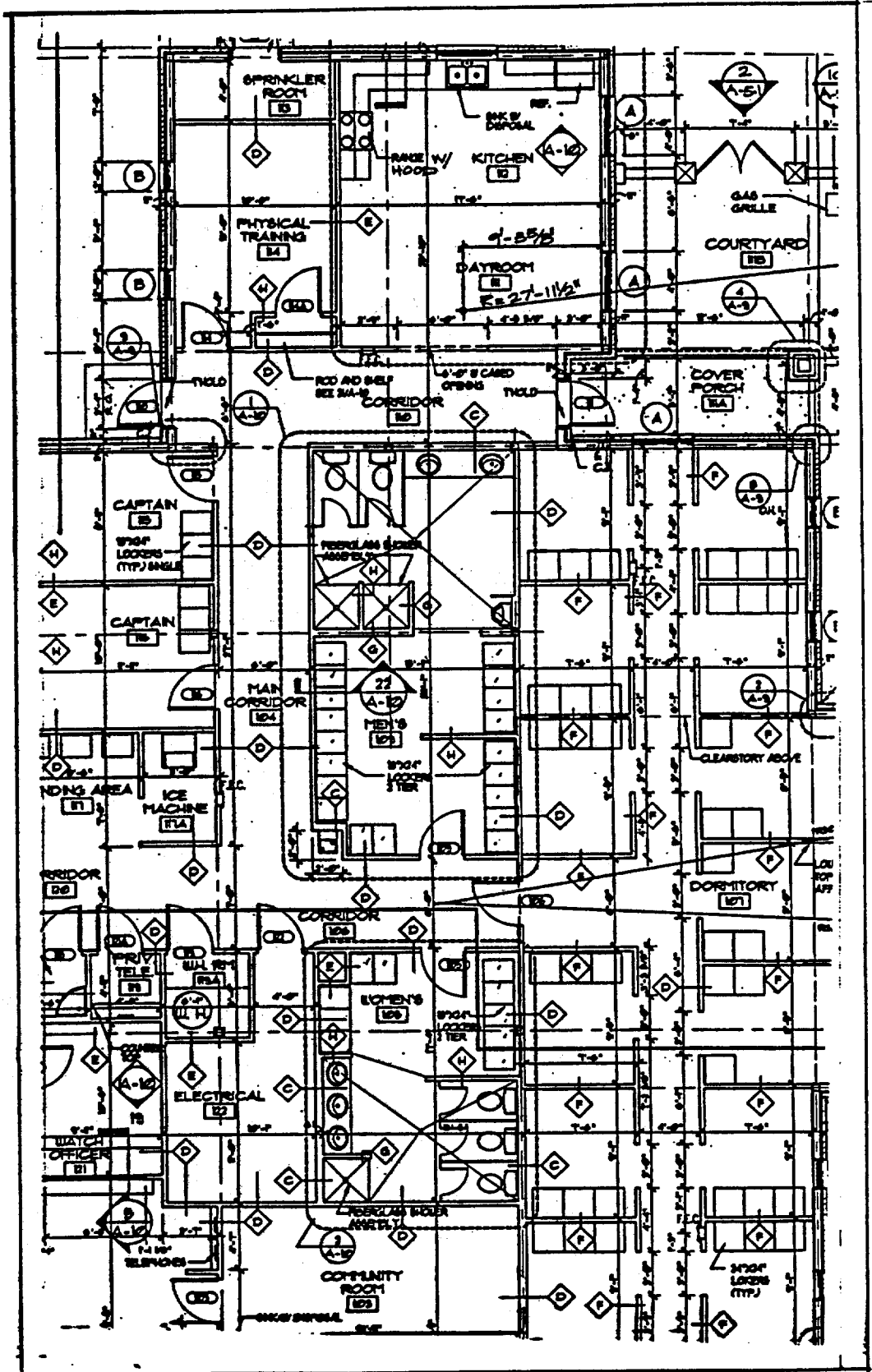
- ❖ APPARATUS BAY
- ❖ LIVING QUARTERS
- ❖ PUBLIC SPACE
- ❖ TURNOUT GEAR
- ❖ LIVING QUARTERS-TOILET & LOCKER ROOM

TWO BAY, DRIVE THRU APPARATUS ROOM SHOWING: RELATIONSHIPS TO GENERAL STORAGE, HAZMAT STORAGE, DECON, TURNOUT GEAR, TRENCH DRAIN AND UTILITY SINK



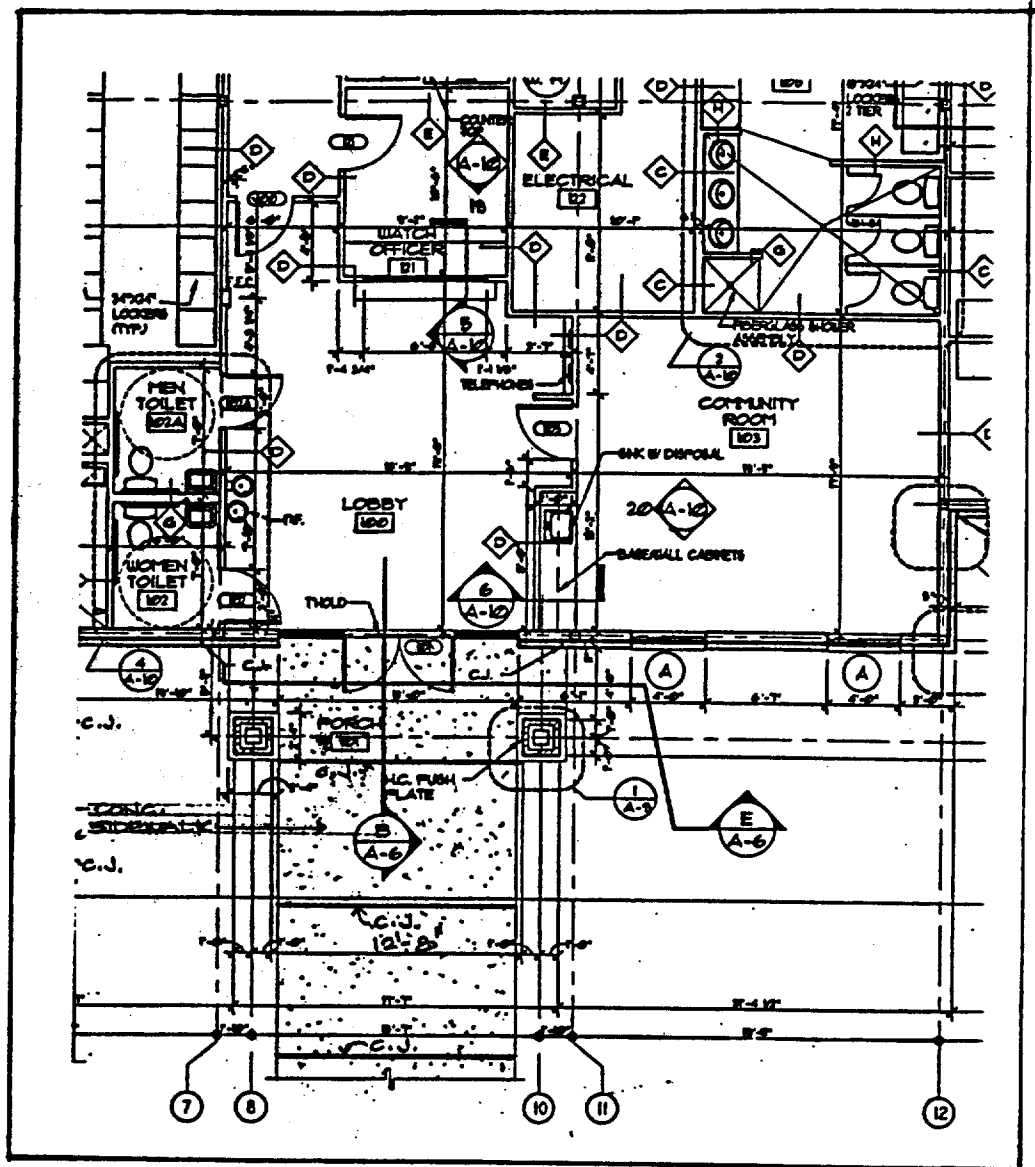
CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

LIVING QUARTERS SHOWING RELATIONSHIPS TO SLEEPING
(OFFICER AND NON-OFFICER), TOILET/SHOWERS (MEN & WOMEN)
KITCHEN, DAYROOM, COURTYARD/PATIO AND EXERCISE/PHYSICAL
TRAINING ROOM



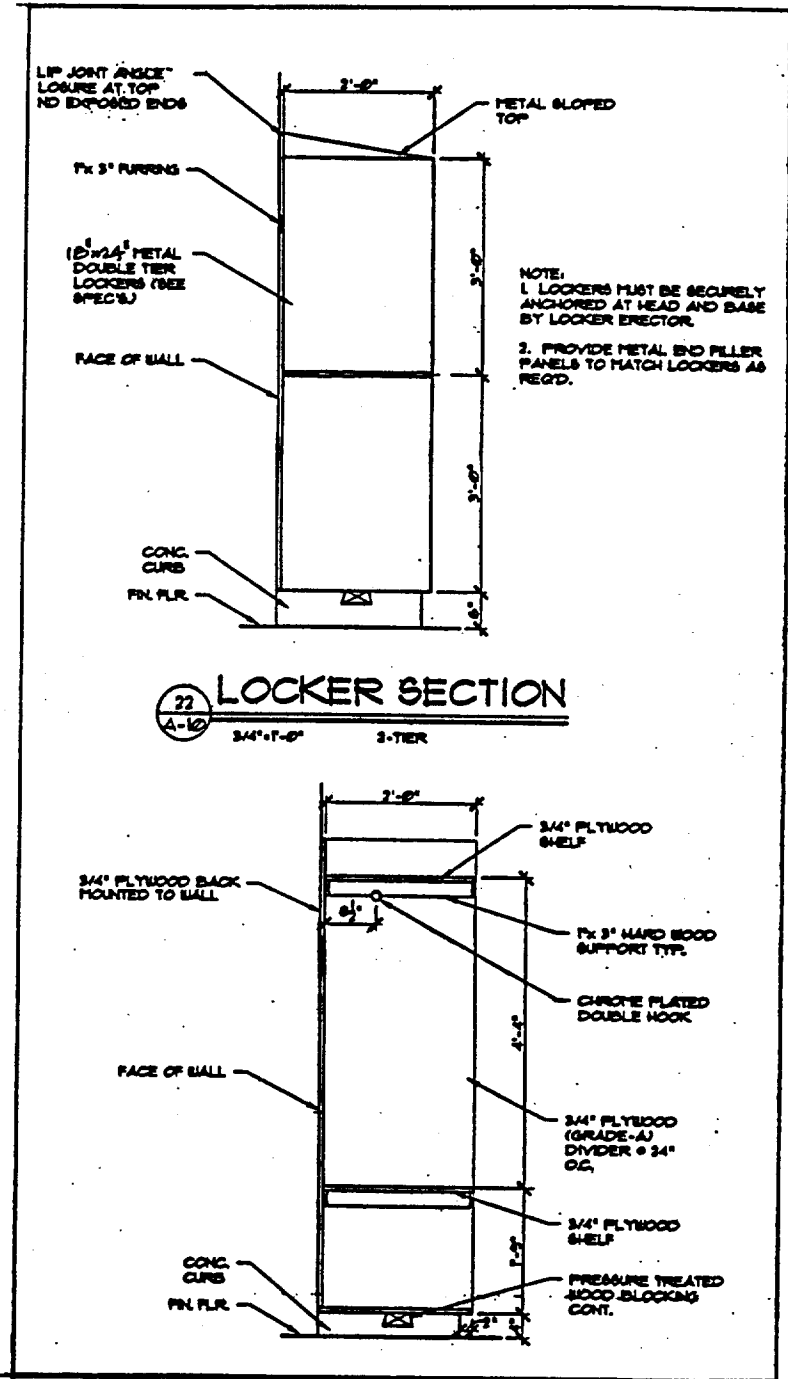
CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

THE ILLUSTRATION SHOWS PUBLIC SPACE AND THE RELATIONSHIPS BETWEEN BUILDING ENTRANCE, LOBBY, COMMUNITY ROOM AND PUBLIC TOILETS. PUBLIC SPACE IS SEGREGATED AND SECURED FROM THE REST OF THE STATION AND CAN BE MONITORED BY THE WATCH OFFICER.



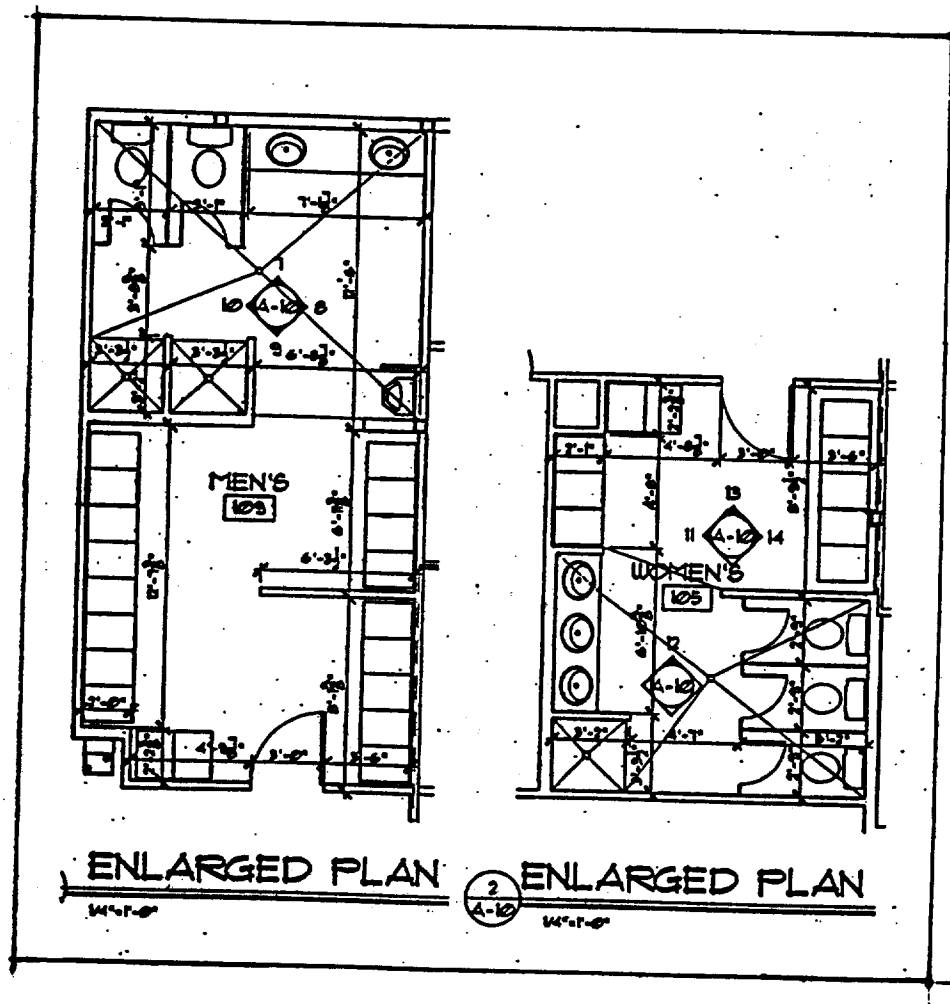
CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

DETAIL OF TURNOUT GEAR LOCKER



CITY OF ATLANTA FIRE STATIONS
FACILITY DESIGN ISSUES AND DESIGN GUIDELINES

COMBINED TOILETS, SHOWER AND LOCKERS (GENDER SPECIFY)



(Do Not Write Above This Line)

A RESOLUTION

BY PUBLIC SAFETY COMMITTEE

A RESOLUTION TO AMEND REOSLUTION 98-R-0571, AUTHORIZING A NOTICE TO PROCEED FOR ADDITIONAL DESIGN/BUILD SERVICES AND OTHER PURPOSES OF FIRE STATION NO. 14, LOCATED AT LEE AND AVON STREETS. THE AMOUNT OF THE NOTICE TO PROCEED SHALL NOT EXCEED TWO MILLION FOUR HUNDRED SIXTEEN THOUSAND THREE HUNDRED THIRTY-SEVEN DOLLARS (\$2,416,337.00). ALL CONTRACTED WORK SHALL BE CHARGED TO AND PAID FROM FUND ACCOUNT CENTER NUMBERS: 1C41 573001 W11C022892AC (\$925,000.00), 1C42 574001 W11C021392AC (\$1,410,000.00), AND 1C40 573001 W11C021392AB (\$81,337.00).

- ☐ CONSENT REFER
- ☐ REGULAR REPORT REFER
- ☐ ADVERTISE & REFER
- ☐ 1st ADOPT 2nd READ & REFER
- ☐ PERSONAL PAPER REFER

Date Referred

Referred To:

Date Referred

Referred To:

Date Referred

Referred To:

First Reading

Committee _____
Date _____
Chair _____
Referred to _____

Committee

Date

Chair

Action:

Fav, Adv, Hold (see rev. side)

Other:

Members

Refer To

Committee

Date

Chair

Action:

Fav, Adv, Hold (see rev. side)

Other:

Members

Refer To

Committee

Date

Chair

Action:

Fav, Adv, Hold (see rev. side)

Other:

Members

Committee

Date

Chair

Action:

Fav, Adv, Hold (see rev. side)

Other:

Members

Refer To

Refer To

FINAL COUNCIL ACTION

- ☐ 2nd ☐ 1st & 2nd ☐ 3rd
- Readings
- ☐ Consent ☐ V Vote ☐ RC Vote

CERTIFIED

MAYOR'S ACTION